

Virgil, S

1648 Page 1 of 7  
0500 #7

PCT

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/856,114

DATE: 06/12/2001  
TIME: 10:31:09

Input Set : A:\Seqlist.txt  
Output Set: N:\CRF3\06112001\I856114.raw

RECEIVED ENTERED

MAY 20 2002

TECH CENTER 1600/2900

4 <110> APPLICANT: Hyo Jeong Hong  
5 Chun Jeih Ryu  
6 Hangsook Hur  
8 <120> TITLE OF INVENTION: HUMANIZED ANTIBODY SPECIFIC FOR HBV SURFACE  
9 ANTIGEN PRE-S1 OF HBV AND PREPARATION METHOD THEREOF  
12 <130> FILE REFERENCE: 118.13USWO  
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/856,114  
C--> 14 <141> CURRENT FILING DATE: 2001-05-18  
14 <150> PRIOR APPLICATION NUMBER: PCT/KR99/00699  
15 <151> PRIOR FILING DATE: 1999-11-19  
17 <150> PRIOR APPLICATION NUMBER: 1998-49663  
18 <151> PRIOR FILING DATE: 1998-11-19  
20 <160> NUMBER OF SEQ ID NOS: 28  
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25 <211> LENGTH: 26  
26 <212> TYPE: DNA  
27 <213> ORGANISM: Artificial Sequence  
29 <220> FEATURE:  
30 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 1  
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54 <400> SEQUENCE: 3  
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62 <220> FEATURE:  
63 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 4  
65 <400> SEQUENCE: 4  
66 agaactactg aatgcgtagc cagaagc 27  
68 <210> SEQ ID NO: 5

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70 <212> TYPE: DNA
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73 <220> FEATURE:
74 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 5
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81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 6
87 <400> SEQUENCE: 6
88 aatccgtcca atccactcaa gaccctg                27
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91 <211> LENGTH: 21
92 <212> TYPE: DNA
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95 <220> FEATURE:
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115 <213> ORGANISM: Artificial Sequence
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126 <213> ORGANISM: Artificial Sequence
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131 <400> SEQUENCE: 10
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134 <210> SEQ ID NO: 11
135 <211> LENGTH: 33

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139 <220> FEATURE:
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184 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 15
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194 <220> FEATURE:
195 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 16
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201 <211> LENGTH: 39
202 <212> TYPE: DNA

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205 <220> FEATURE:
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224 <212> TYPE: PRT
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Variable region of heavy chain in mouse KR127
229     antibody
231 <400> SEQUENCE: 19
232 Gln Val Gln Leu Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
233 1      5      10      15
234 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser
235      20      25      30
236 Trp Met Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
237      35      40      45
238 Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Gly Lys Phe
239      50      55      60
240 Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
241 65      70      75      80
242 Met Gln Leu Ser Ser Leu Thr Ser Val Asp Ser Ala Val Tyr Phe Cys
243      85      90      95
244 Ala Arg Glu Tyr Asp Glu Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
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246 Val Ser Ala
247      115
249 <210> SEQ ID NO: 20
250 <211> LENGTH: 115
251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Variable region of humanized heavy chain
256     HKR127HC(HZI)
258 <400> SEQUENCE: 20
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260 1      5      10      15
261 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser
262      20      25      30

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263 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
264          35          40          45
265 Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Ala Gln Lys Phe
266          50          55          60
267 Gln Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
268 65          70          75          80
269 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys
270          85          90          95
271 Ala Arg Glu Tyr Asp Glu Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
272          100          105          110
273 Val Ser Ser
274          115
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277 <211> LENGTH: 115
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285 <400> SEQUENCE: 21
286 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
287 1          5          10          15
288 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Ser
289          20          25          30
290 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
291          35          40          45
292 Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Ala Gln Lys Phe
293          50          55          60
294 Gln Gly Arg Val Thr Met Thr Ala Asp Lys Ser Thr Ser Thr Val Tyr
295 65          70          75          80
296 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
297          85          90          95
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299          100          105          110
300 Val Ser Ser
301          115
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310      antibody
312 <400> SEQUENCE: 22
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315 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
316          20          25          30
317 Asn Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser

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VERIFICATION SUMMARY

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L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date